Title: ANTIBODIES ASSOCIATED WITH ALTERATIONS IN BONE DENSITY
Inventor(s): Mary E. Brunkow et al. Express Mail No. EV336653912US Docket No. 240083.508C3

Common Cysteine Backbone

1				50	
human-gremlin.pro human-cerberus.pro	MHLLLFQLLV	LLPLGKTTRH	QDGRQNQSSL	SPVLLPRNQR	ELPTGNHEEA
human-dan.pro	~~~~~	~~~~~			~~~~~~
human-beer.pro	~~~~~~	~~~~~~			
	51				100
human-gremlin.pro	~~~~~			LLLLGTLLPA	•
human-cerberus.pro	EEKPDLFVAV	PHLVAT.SPA	GEGQRQREKM	LSRFGRFWKK	PEREMHPSRD
human-dan.pro human-beer.pro	~~~~~	~~~~~	~~~~~	~~~MQLPLA	I CL VCL I VHT
Waller Book pro				i iqui uni	2021022111
1	101	LUDOSOTOOD	0000000000	00000711100	150
human-gremlin.pro	-			GOGRGTAMPG	•
human-cerberus.pro human-dan.pro	2025555501	USLIUPID.G		EAKKFWHHFM MLRVLVGAVL	
human-beer.pro	AFRVVEGOGW	OAFKNDATEI		PPELENNKTM	
		1	1	1	1
	151	<u> </u>	†	†	† 200
human-gremlin.pro				RTIINRF.ĊY	
human-cerberus.pro				VVVQNNL.CF	
human-dan.pro human-beer.pro			· ·	KSIQNRA.CL AKPVTELVCS	•
numan-beer .pro	UULLEIKUAS	ETSCREENFT	KIVIDUPUKS	ANTVIELVO	UQCUPARLLY
	201	↓		\dagger \land \dagger	250
human-gremlin.pro	HIRKEEGSFQ	SCSFCKP	KKFTTMMVTL	NCPELQPPTK	K.KRVTRVKQ
human-cerberus.pro				NCTELSSVIK	
human-dan.pro			•	ECPGHEEVPR	
human-beer.pro	NAIGRGKWWR	PSGPDFRCIP	DRYRAQRVQL	LCPGGEAPRA	RKVRLVAS
	นรท				300
human-gremlin.pro	CRC. ISIDLD	~~~~~			~~~~~
human-cerberus.pro	CQCKVKTEHE	DGHILHAGSQ	DSFIPGVSA~	~~~~~~	~~~~~
human-dan.pro	CSCQACGKEP	SHEGLSVYVQ	GEDGPGSQPG	ТНРНРНРНРН	PGGQTPEPED
human-beer.pro	CKCKRLTRFH	NOSELKDFGT	EAARPQKGRK	PRPRARSAKA	NQAELENAY~
	301	314			
human-gremlin.pro	~~~~~	~~~~			
human-cerberus.pro		~~~			
human-dan.pro	PPGAPHTEEE	GAED	•	L_{n}^{r}	·
human-beer.pro	~~~~~	~~~		ΓI_0	g. 1

Inventor(s): Mary E. Brunkow et al. Express Mail No. EV336653912US Docket No. 240083.508C3

Human Beer Gene Expression by RT-PCR

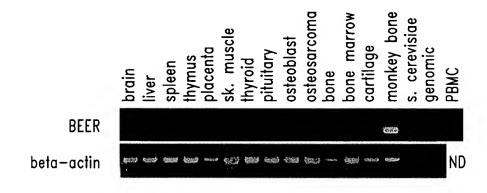
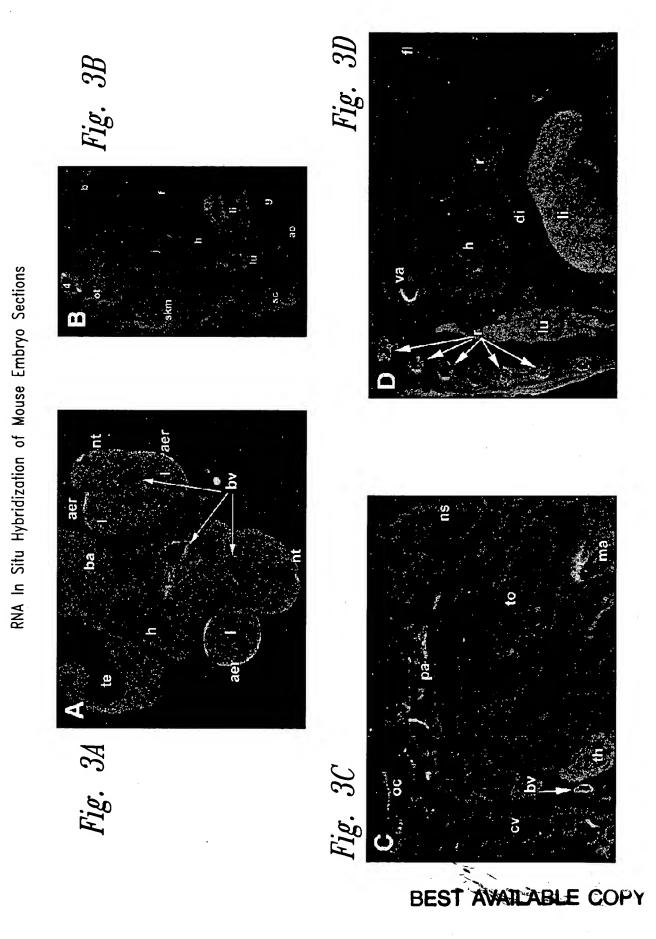


Fig. 2

Title: ANTIBODIES ASSOCIATED WITH ALTERATIONS IN BONE DENSITY

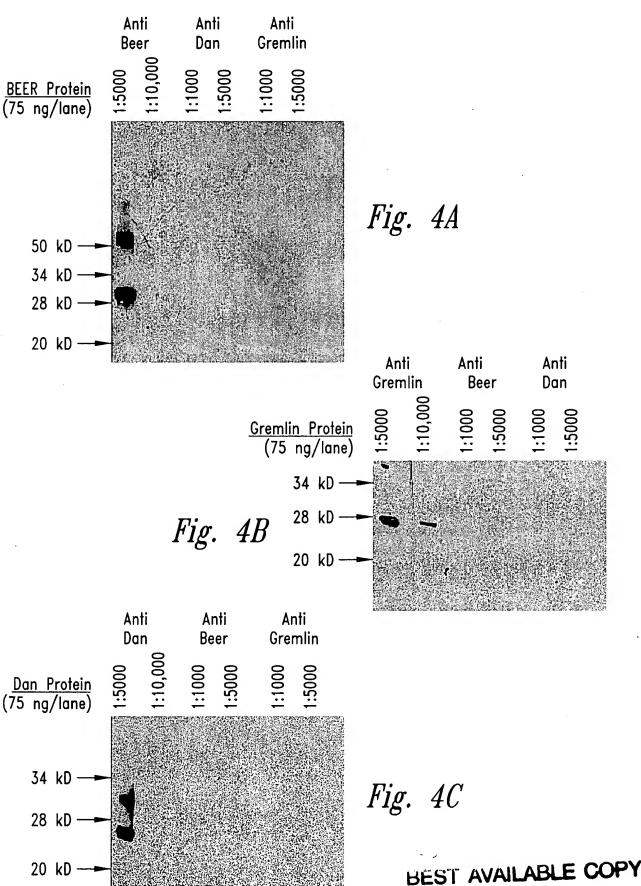
Inventor(s): Mary E. Brunkow et al. Express Mail No. EV336653912US Docket No. 240083.508C3

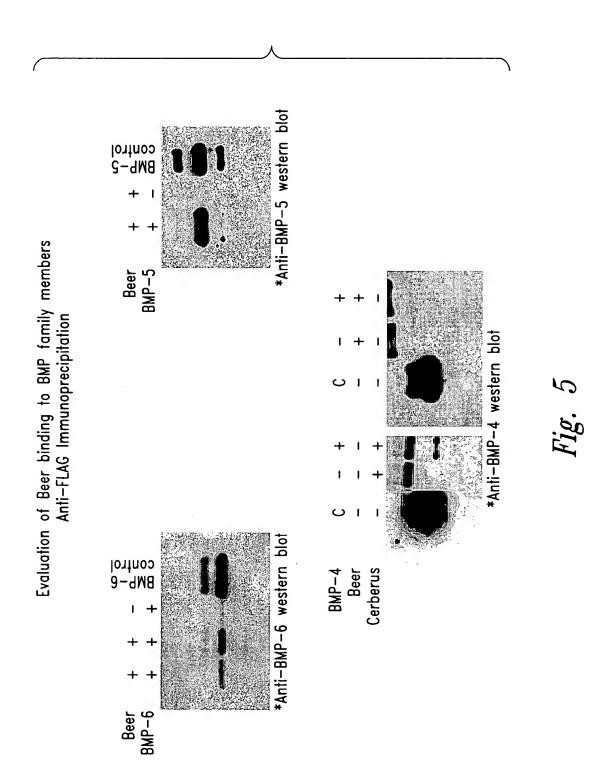


Title: ANTIBODIES ASSOCIATED WITH ALTERATIONS IN BONE DENSITY

Inventor(s): Mary E. Brunkow et al. Express Mail No. EV336653912US Docket No. 240083.508C3







BEST AVAILABLE COPY

Inventor(s): Mary E. Brunkow et al. Express Mail No. EV336653912US Docket No. 240083.508C3

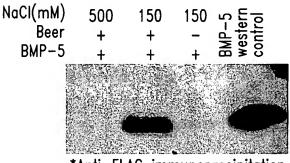
BMP-5/Beer Dissociation Constant Characterization

.75 1.5 7.5 15 30 60 120 nM BMP-5



*Anti-FLAG immunoprecipitation *Anti-BMP-5 western blot

Ionic Disruption of BMP-5/Beer Binding



*Anti-FLAG immunoprecipitation *Anti-BMP-5 western blot

Fig. 6